

## QB3H Electronic Pressure Regulator



- Pressure ranges from vacuum to 500psig
- Available in lightweight aluminum or oxygen compatible brass bodies
- High forward and high relief flows
- Stainless steel internal pressure sensor for industrial durability
- Standard with 0-10VDC analog output signal

### FUNCTIONAL DESCRIPTION

The QB3H is an electronic pressure regulator capable of operating at high pressures (to 500psig/34.47 bar) and high forward and relief flows (to 50scfm/1416slpm). The QB3H consists of two solenoid valves which add or subtract pressure to the pilot of an integral volume boosting regulator. An internal stainless steel pressure sensor measures the output pressure of the integral regulator and sends this signal to the onboard controller. This controller then modulates the two solenoid valves to match the integral regulator's output pressure to the user's requested command signal. All brass body units are oxygen cleaned at the factory.

### GENERAL SPECIFICATIONS

#### ELECTRICAL

Supply Voltage.....	15-24 VDC
Supply Current.....	250mA (MAX)
Command Signal.....	4-20mA Differential 0-10 VDC Differential
Command Signal Impedance.....	100 OHM (Current) 10K OHM (Voltage)
Monitor Signal.....	4-20mA Sinking 4-20mA Sourcing 0-10 VDC (Standard)

#### PHYSICAL

Operating temperature.....	32-158°F (0-70°C)
Weight.....	Brass 2.8lbs. (1.27kg) Aluminum 1.4lbs. (0.64kg)
Protection Rating.....	NEMA 4/IP65
Housing.....	Anodized Aluminum

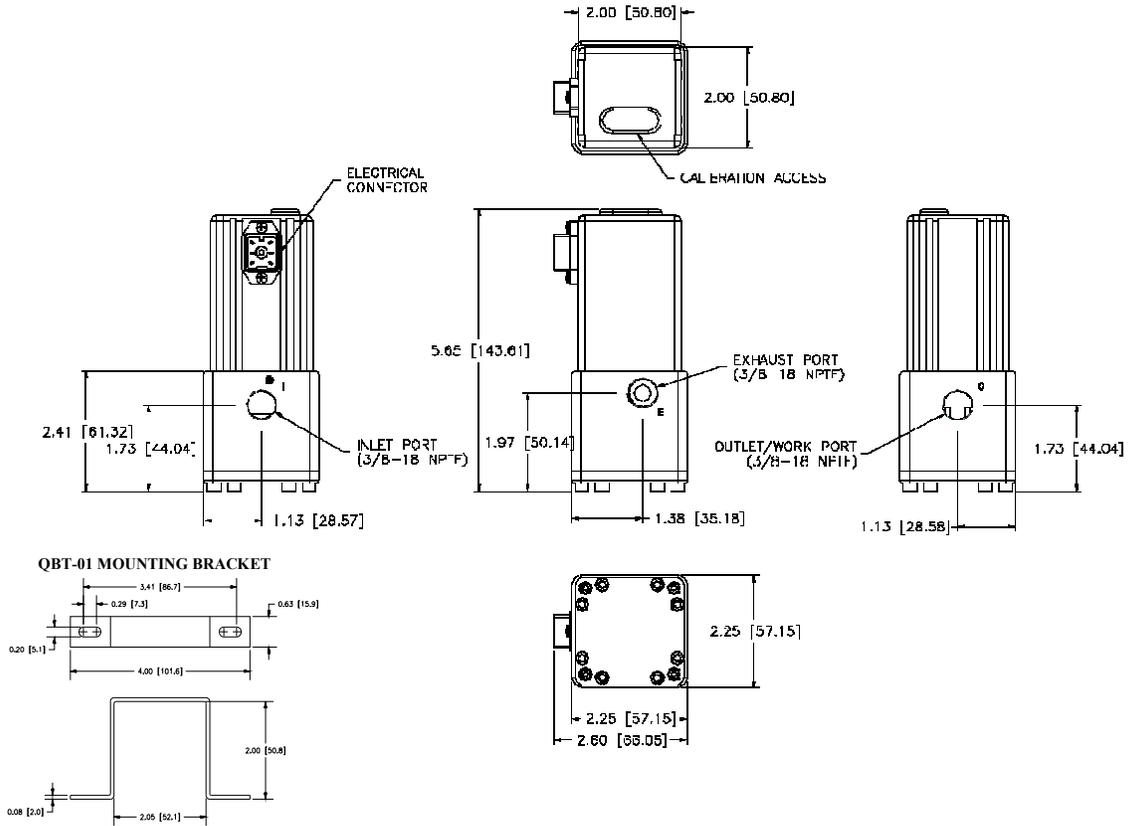
#### MECHANICAL

Max. Inlet Pressure.....	550 psig
Pressure Ranges.....	29.9 in. Hg (VAC) through 500 psig (34.47 bar)
Filtration Required.....	40 micron
Linearity/Hysteresis.....	≤ 0.5% F.S. B.F.S.L.
Repeatability.....	≤ 0.2% F.S.
Wetted Parts.....	Brass Body: Nickel Plated Brass Stainless 17-4 ph Viton Aluminum Body: Nickel Plated Aluminum Nickel Plated Brass 17-4 ph Stainless Buna-N

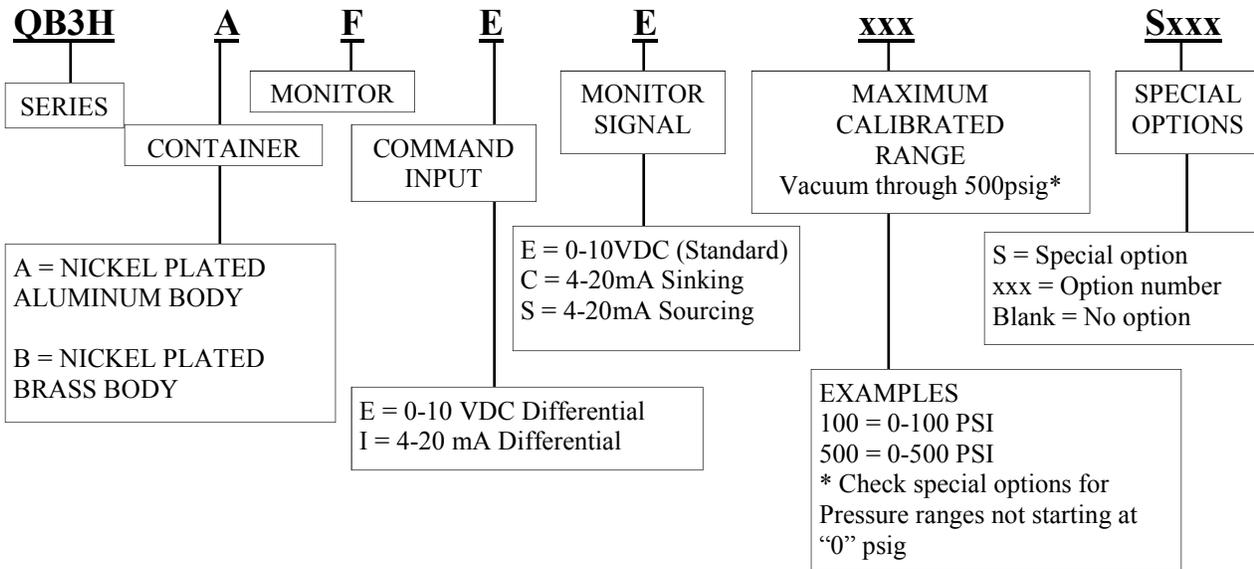
#### MEDIA COMPATIBILITY

Air/Inert Gas
Oxygen (Brass Body Only)

# DIMENSIONS



# ORDERING INFORMATION



Proportion-Air products are warranted to the original purchaser only against defects in material or workmanship for one (1) year from the date of manufacture. The extent of Proportion-Air's liability under this warranty is limited to repair or replacement of the defective unit at Proportion-Air's option. Proportion-Air shall have no liability under this warranty where improper installation or filtration occurred.

All specifications are subject to change without notice. **THIS WARRANTY IS GIVEN IN LIEU OF, AND BUYER HEREBY EXPRESSLY WAIVES, WARRANTIES OR LIABILITIES, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY OBLIGATION OF PROPORTION-AIR WITH REGARD TO CONSEQUENTIAL DAMAGES, WARRANTIES OF MERCHANTABILITY, DESCRIPTION, AND FITNESS FOR A PARTICULAR PURPOSE.**

**WARNING:** Installation and use of this product should be under the supervision and control of properly qualified personnel in order to avoid the risk of injury or death.

**PROPORTION-AIR, INC.**  
**BOX 218 MCCORDSVILLE, IN USA 46055**  
**PHONE: (317)335-2602**      **FAX: (317)335-3853**  
**web site: [www.proportionair.com](http://www.proportionair.com)**      **email address: [info@proportionair.com](mailto:info@proportionair.com)**